

CLAIMS

What is claimed is:

1. A portable multimedia electronic device comprising:
 - 5 a video recording means for recording video from an external video source;
 - an audio recording means for recording audio from an external audio source;
 - a video playback means for playing back video;
 - an audio playback means playing back audio;
 - an image viewer for recalling images;
 - 10 a built-in display for displaying video or images;
 - a rechargeable battery for supplying power;
 - a keypad for controlling operation;
 - at least one status indicator for indicating status; and
 - a storage means for providing data storage.
- 15 2. The portable multimedia electronic device of claim 1, further comprising:
 - a microphone input, an audio left input, an audio right input, a video input, an s-
 - video input, an infrared port, a power supply input, a headphone output, an audio left
 - output, an audio right output, a video output, an s-video out, a bi-directional high
 - speed interface, a cable television input, a cable television output, and a memory card
 - 20 port, or a combination of these.
3. The portable multimedia electronic device of claim 2, whereby operation of the device is controlled by a remote control via the infrared port.
4. The portable multimedia electronic device of claim 1, further comprising:
 - a central processing unit, a flash memory, a dynamic random access memory,
 - 25 and firmware for providing operating capabilities, functions, and an operating system

for the device.

5. The portable multimedia electronic device of claim 1, further comprising:
a built-in microphone for recording voice.

6. The portable multimedia electronic device of claim 1, further comprising:
5 a built-in speaker for playing back audio or voice.

7. The portable multimedia electronic device of claim 1, further comprising:
a switch for selecting between phase alternation line (PAL), national television
systems committee (NTSC), or sequential couleur avec memoire (SECAM) video
types.

10 8. The portable multimedia electronic device of claim 1, further comprising:
a real time clock program for scheduling recording of data, battery recharging, or
backup schedules.

9. The portable multimedia electronic device of claim 1, further comprising:
an on-screen display (OSD) or graphic user interface (GUI) menu system for
15 displaying playback and recording controls, and for displaying settings, options,
parameters, and properties.

10. The portable multimedia electronic device of claim 1, whereby the keypad
comprises controls for, power on, power off, mode select, stop, play, hold, pause, fast
forward, track forward, fast rewind, track back, menu up, volume up, menu down,
20 volume down, channel up, channel down, zoom in, and zoom out, or a combination of
these.

11. The portable multimedia electronic device of claim 1, whereby the at least one
status indicator comprises a power indicator, a high speed interface indicator, an
encoding indicator, a decoding indicator, a battery level monitor, or a combination of
25 these.

12. The portable multimedia electronic device of claim 1, whereby the storage means comprises an advanced technology attachment (ATA), an integrated drive electronics (IDE), or a serial advanced technology attachment (SATA) compatible hard disc drive.
- 5 13. The portable multimedia electronic device of claim 1, whereby the built-in display comprises a liquid crystal display (LCD) display panel.
14. The portable multimedia electronic device of claim 2, whereby the bi-directional high speed interface comprises a universal serial bus (USB), USB 2, or IEEE 1394 interface.
- 10 15. The portable multimedia electronic device of claim 1, further comprising codecs for encoding or decoding voice, audio, images, or video.
16. The portable multimedia electronic device of claim 1, whereby multimedia support is provided for MPEG-1, MPEG-2, MPEG-4, AVI, DivX, ASF, WMV, WMA, AAC, MP3, G.726, JPEG, JPEG2000, M-JPEG, GIF, and BMP formats.
- 15 17. The portable multimedia electronic device of claim 1, whereby the device records audio or video from an external audio or video source connected to the audio or video recording means.
18. The portable multimedia electronic device of claim 1, further comprising a camera for taking digital photographs or recording video.
- 20 19. The portable multimedia electronic device of claim 1, further comprising a television tuner, whereby television programming is recordable via the video recording means.
20. A portable multimedia electronic device comprising:
- a central processing unit, a flash memory, a dynamic random access memory,
- 25 and firmware for providing operating capabilities, functions, and an operating system

for the device;

a television tuner for providing television programming tuning;

a video recording means for recording video from an external video source or from the television tuner;

5 an audio recording means for recording audio from an external audio source;

a voice recording means for recording voice;

a camera for taking digital photographs or recording video;

a video playback means for playing back video;

an audio playback means playing back audio and voice;

10 an image viewer for recalling images;

a plurality of inputs and outputs comprising a microphone input, an audio left input, an audio right input, a video input, an s-video input, an infrared port, a power supply input, a headphone output, an audio left output, an audio right output, a video output, an s-video out, a cable television input, a cable television output, a bi-directional high speed interface, a memory card port, or a combination of these;

a built-in display for displaying television, video or images;

a rechargeable battery for supplying power;

a keypad for controlling operation comprising controls for, power on, power off, mode select, stop, play, hold, pause, fast forward, track forward, fast rewind, track back, channel up, channel down, menu up, volume up, menu down, volume down, zoom in, zoom out, or a combination of these;

at least one status indicator for indicating status comprises a power indicator, a high speed interface indicator, an encoding indicator, a decoding indicator, a battery level monitor, or a combination of these; and

25 an advanced technology attachment (ATA), serial advanced technology

attachment (SATA), or integrated drive electronics (IDE) compatible hard disc drive for providing data storage.

21. The portable multimedia electronic device of claim 20, whereby operation of the device is controlled by a remote control via the infrared port.

5 22. The portable multimedia electronic device of claim 20, further comprising:
a built-in microphone for recording voice.

23. The portable multimedia electronic device of claim 20, further comprising:
a built-in speaker for playing back audio or voice.

24. The portable multimedia electronic device of claim 20, further comprising:
10 a switch for selecting between phase alternation line (PAL), national television systems committee (NTSC), or sequential couleur avec memoire (SECAM) video types.

25. The portable multimedia electronic device of claim 20, further comprising:
a real time clock program for scheduling recording of data, battery recharging, or
15 backup schedules.

26. The portable multimedia electronic device of claim 20, further comprising:
an on-screen display (OSD) or graphic user interface (GUI) menu system for displaying playback and recording controls, and for displaying settings, options, parameters, and properties.

20 27. The portable multimedia electronic device of claim 20, whereby the built-in display comprises a liquid crystal display (LCD) display panel.

28. The portable multimedia electronic device of claim 20, whereby the bi-directional high speed interface comprises a universal serial bus (USB), USB 2, or IEEE 1394 interface.

25 29. The portable multimedia electronic device of claim 20, further comprising

codecs for encoding or decoding voice, audio, images, or video.

30. The portable multimedia electronic device of claim 20, whereby multimedia support is provided for MPEG-1, MPEG-2, MPEG-4, AVI, DivX, ASF, WMV, WMA, AAC, MP3, G.726, JPEG, JPEG2000, M-JPEG, GIF, and BMP formats.

5 31. The portable multimedia electronic device of claim 20, whereby the device records audio or video from an external audio or video source connected to the audio or video recording means or from the television tuner.